

What is claimed is:

1. An on-off switch for mounting within a wall box wherein the switch comprises;

a paddle having an upper end and a lower end where the lower end pivots in and out about the upper end of the paddle;

bias means coupled to urge the lower end of the paddle to an out position when the switch is in its on position and off position, the switch having a vertical axis along its length and a horizontal axis along its width wherein the face of the paddle along its vertical axis has a contour of positive first differential comprised of a combination of splines drawn between points of varying distances from a datum plane.

2. The switch of claim 1 wherein the surface along the vertical axis has a contour of zero second differential comprised of splines drawn between points of varying distance from a datum plane when the rate of height increase of the individual splines is constant.

3. The switch of claim 1 wherein a section along the horizontal axis has a surface with contour of a positive first differential and negative second differential, comprised of a combination of splines drawn between points of varying distances from the datum plane.

4. The switch of claim 1 wherein a section along the vertical axis of the face of the paddle has a surface contour of positive first differential, comprised of splines drawn between points of varying distance from a datum plane, and a section along the horizontal axis has a surface contour of a positive first differential and negative second differential, comprised of a combination of splines drawn between points of varying distances from the datum plane.

5. The switch of claim 4 wherein the section along the vertical axis of the face has a surface contour of zero second differential comprised of splines drawn between points of varying distances from a datum plane when the rate of height increase of the individual splines is constant.

6. The switch of claim 1 wherein the paddle is not within a frame.